By means of personal visits and through correspondence with many of our best informed farmers and livestock breeders, the Office of Farm Management of the Department of Agriculture recently attempted to get reliable information concerning the influence of age on the value of dairy cows. Farm Management investigators have found that for farm data the average of a large number of estimates and the street of the cow worth \$100 at that age is given a birth value of about age is given a birth value of about gage is removable, a serious outbreak to the disease. If the gage is given a birth value of about gage is removable, a serious outbreak to gage is removable, a serious outbreak gage is given a birth value of about gage is given a birth value o thirty replies had been averaged me evidence as to the accuracy e figures. The estimates secured While figures concerning the s of dairy cows were obtained nearly every important agriculdistrict in the United States, of the estimates were secured Virginia, New York, Pennsylvanwere based on age only. In order he animal was assumed to be in per



were included in these investigations. ing to any breed. Arbitrary values ample powere assumed for a certain fixed age, lexumes merely to get a starting point from good prowhich to work. Thus, for each breed estimates were based on four classes of three-year-olds, namely, the \$80 grade cows, the \$100 grade, the \$200 pure bred, and the \$300 pure bred. If the cow was assumed to be with calf at three years of age, she was considhave reached the same stage pregnancy each succeeding year. In ure that case of pure-bred stock changes fields now the advanced registry of the cow waste, pre-

In considering the Holstein cows the influence of age on the value of four classes, namely, cows worth per head \$800, \$100, \$200 and \$300, respectively, at three years of age was reckoned. The same of age was reckoned three years of age was reckoned. The wise orchardist has learned something about the use and abuse of leaders have the heads well rotted manufe. their maximum money value at six years of age. The values do not vary greatly between the ages of four and cight years. After that age, deprectation is rapid. The estimated values given old cows may seem a little high, but it must be remembered that only nationals in health were considered, taives and old cows are valued relatively higher in the Central States, than in the East. This is doubtless due largely to the lower price of feed in the North Central States. Furing their years of highest production, the price of seed will be killed in the process, and much organic matter will cess, and much organic matter will be added to fall the immediate will be added to a little lime that he need that only added to the ground under one tree in which pickers had been climbing.

Of all the numerous styles of ladders, some form of stepladder. Climbing about among the branches of a tree is always to be deprecated. If. H. Shepard, of Hood River, says that he once counted forty-three fruit spurs on the ground under one tree in which pickers had been climbing. Of all the numerous styles of ladders, the price of the tree is considered or the composition production, the price of highest production, the price of highest production, the price of seed will be killed in the pro-cess, and much organic matter will be added to fall the product of a tree is always to be deprecated. If. H. Shepard, of Hood River, says that he once counted forty-three fruit spurs on the ground under one tree in which pickers had been climbing.

Of all the numerous styles of ladders, the price of the tree is a mean of the price of the tree is a mean of the price of such as the price o



The Holstein. These figures indicate that appreciation and depreciation due to age are shout the same for cherneys and shout the same for the series and same for the sa Holsteins. According to those extinuates, Guernney calves and old cows, like those of the Holsteins are cheaper



The deract.

The estimates indicate that (hernisey cows of all classes reach their high-cows of all classes reach their high-cit value at five and six years of age investigations, indicate that all classes of Jerseys are valued highest that six years, though the difference in value for five and six years is not prest. Here, again, calves are rated relatively cleaper for the Northeastern fatigued at the advent of warmer states, but the regional difference in weather.

Late Fall Plowing.

The worry that hinders your happiness.

The drawbacks that seem to stand the way of your success.

For the Farmer's Wife.

Sliced raw polatoes can be haked integers in nothing on the farm which returns as much value and profits for the small capital that need be invented in warmer as half a dozen well-cared for colonics that they will be erisp and good.

When rossing a turkey, stuff the breast with pared weet potatoes; they will be expected a profitable investing and they can stand the work much was of your success.

For the Farmer's Wife.

Sliced raw polatoes can be haked integers in nothing on the farm with orenarding.

The worry that hinders your happiness.

The drawbacks that seem to stand in the warm of stand in the way of your success.

For the Farmer's Wife.

Sliced raw polatoes can be haked integers in a nothing on the farm they can next.

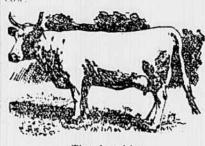
Wife.

Sliced raw polatoes can be haked integers in the warmer as nothing on the farm t The estimates indicate that Guernsey

## AGRICULTURAL DEPARTMENT

Those who have occasion to explanation for this may be that it live stock are constantly though the younger animals have be-

nd that for farm data the of a large number of estiof a large number of estialmost as accurate as that of kept records, provided the are given by men who there are given by men who there above that required for their physical well ones. All coops and runs where now the subject under con-The fight that the average an abundant supply of palatable nutritions feed at a minimum cost and feeding in such a way as to rectically constant after the from the feed consumed. Feeding for feeding to the full capacity of the



tions to this rule Practically all heavy milk producers lose weight in the early part of their lactation period; that is, they produce milk at the expense of their body flesh. When such cows approach the end of their milking period they normally regain the flesh they have lost to the flesh that here have lost and be repaid in the form of milk when the cows again fresher

they a fliely-pulverized compact seed, begin and the very best seed, distribute evenly over the field, don't sow too deep. Too much importance cannot be laid upon the thorough preparation of the seed bed for grass, says the demonstration agent for lisliffax county. When grain drill with a grass statischment can be had it may be used with good results. Unless grass is grown for markets which demand unliked hay of a certain variety, it will generally be found more profitable to sow a mixture of seed. The chief reason for this is that the roots of a single-rail ladder. However, this ladder is not quite as safe or as comfortance, a strong, heavy, four-legged ladder is a general factor into its a general factor. This is about four feet wide and nonfolding, being more like a small flight of stairs than a ladder. It is the safest and most comfortable of ladders, but heavy and awkward to move, and protect her comfort from the wather. She likes to sit by the safest and most comfortable of ladders, but heavy and awkward to move, and protect her comfort from the wather. She likes to sit by the safest and most comfortable of ladders, but heavy and awkward to move, and protect her comfort from the wather. She likes to sit by the safest and most comfortable of ladders, but heavy and awkward to move, and protect her comfort from the wather. She likes to sit by the safest and most comfortable of ladders, the Japanese ladder is very useful. This is lighter to manipulate among the branches because of its pointed shape.

Lightest of all the tall ladders is the safest and most comfortable and nonformation of the year, the temptation comes to every girl to stay close indoors, and protect her comfort from the wather. She likes to sit by the wather. She likes to sit by the warm kitchen, or sew or crochet in the living-reom, by the glowing heater, when it is raining and blowing and cold on the road.

Fortunate, indeed, is the protect of doors a certain amount oach day, for she is the one who will exercise than a treatle ladder, as wel they do not interfere with each other. Then in certain fields, parts of the land are well adapted to growing one grass

work may be prevented. Eunning for remedies and cleaning up when a flock is down with contagious disease is certainly a ridiculous and fruitless proceeding and exhibition of how not to find the future. The kindness you have tried to do the first to keep your window wide open at might, about you.

The mean things others have said your window wide open at might, about you.

The mistakes you have made in the Re an outdoors girl this winter Keep young, strong healthy and hearty.

The kindness you have tried to do tramp in the fresh air to keep your skin

if we want eggs, let us first get a hen that lays, no matter what her color or shape. Let us study her external character, and when we first to that certain characters or points in dicate the good layer, let us breed for those characters regardless of any-

Facts for Farmers, Stock Breeders, Poultry Raisers. Orchardists, Truckers and Gardeners ... Queries and Answers

#### TO PREVENT GAPS **BRIEF NOTES THOUGHT**

wings drooped and mouth open and

the possibility that these cows may bating any disease is to adopt and yet produce valuable calves.

| The most desirable and partial and persist in some reliable means of prevalue of about ments. Unless you remove the cause rth \$100 at that you cannot cure the disease. If the

theroughly disintected. The coops should have a thorough application of not whitewash. The ground of runs should be well limed with air-slacked lime, spaded up, and should be springled with one of the following solutions: a 2 per cent solution of sulphuric acid in water or two ounces of copperas (sulphate of iron) dissolved in a bucket of water; or a solution of permanganate of potassium in water, half an ounce of the crystals in a barrel of water; or a strong solu-tion of creolin, two tablespoonfuls in tion of creelin, two tablespoonfuls in each gallon of water. The ground should be well sprinkled

with one of the above solutions after infected chicks have been removed. Then plow or spade and sprinkle again. Repeat this disinfection whenever in-fected chicks have been running on the ground. Scald all drinking ves-tels used by sick birds and he sure the the water used is beiling. If Whenever possible, manure should be spread as soon as made. A wagon, in the ground which has been occupied by chicks with gapes, get rid of the worms with one of the patented worm exterminators sold by nearly all seedmen. Always burn all chicks which die of the gapes, and whenever you find gapeworms, or extract them



For each class the estimates are tabmulated for the North Central States,
the Northeastern States and two South
curve of the States, Virginia and North Carolina,
All sections aggriffing to these estimate Holstein cows all classes reach
their maximum money value at six
their maximum their maxi

e North Central States. Furing their are of highest production, the price Holstein cows appears to average a tile higher in the Eastern States. This flerence, however, is not marked, and the case of the \$100 grade cow it reversed.

Any ladder which must be set against the tree is a menace to it. Perhaps the hest type of a tail stepladder is one that is very substantially built, yet light chough to be easily handled by one man; and, having three legs, it is easy to set up securely on un-

Rout These Fellows Out.

Deep fall or early winter plowing will destroy many insects. This is eswhich are now hibernating in the soil,

Things to Forget.

The days when you were better off The promises other people have made

The ill-natured gossip you have heard The secrets entrusted to your con-

The worry that hinders your happi-

## OUT BY THE WAYSIDE

To relieve a bee sting reduct am-monia one-half and apply to the sting.

Heavy feeding may produce bloody Be sure to keep plenty of fresh wa-

ter before the hens. Nothing but the best quality of poul-

should be shipped to market Milk is the best balanced human

A good supply of home-grown fruit is worth while and a pleasure and profit in fruit production.

forty-eight States are now spending \$280,000,000 a year on good

Mottled butter is due largely to un-even distribution of salt.

Keeping All the Values.
Whenever possible, manure should be spread as soon as made. A wagon.

Forest planting may be undertaken with success both spring and autumn; in the former when the frost is just of the ground, in the latter season just before it is likely to come in. Wood lot work is practicable at any time, but because of the plentiful and cheaper supply of labor, and a lack of foliage, which makes the operation easier, it is something that may be profitably reserved until fall or winter months, advises flooder because of

Gape Worms Attack Themselves to the Trachea or Windpipe, Wings of the Chick Droop and It Stands and Gapes.

It has not been easy in the past for the individual in most States to receive practical encouragement or skilled advice on proper management of skilled advice on proper management. Well-rotted manure is better than fresh manure for gardens. That is, may be contaminated with the eggs or provided the manure is rotted in an embryonic gape worms, and so become intelligent way, so that the food propagation of fresh maximum of harm in wood lois; or the certies are not leached nor burned out. The disease has existed. If you have considerable fresh manure that you cannot spread on the
fields now and you do not want it to
waste, prepare it for a compost for
your garden next spring.
A level well-drained spot, near the
barn door where water will not wash
through the pile should be selected.
With a spade, remove from three
inches to half a foot of surface soil
over a strin, four.

Feeding for Eggs.

A good ration for egg-production can be made with a combination of grains and ground feeds. For grains. equal parts by weight of wheat and corp, or in the winter time twice as much corn as wheat, may be used. For ground feed, a mixture of equal parts of bran, shorts, and cornneal may be used. Efficient egg-production requires also that this ration he supplemented with either sour milk—all that the birds will drink-or, in case sour milk is not available, commercial heef scrap. One-fourth of the ground feed should consist of beef scrap in case this is used.

Scaly Leg of Chickens.

Scaly lege, a disease which is caused by the presence of a mite that is not distinguishable by the naked eye, may Preparing Seedbed for Grass.

The sowing grasses there are several things that are well to bear in mind liave a flucky pulverized compact seedbed, got the very best seed, distribute evenly over the field, don't sow too deep. The much importance cannot be laid upon the thorough preparation of the tops and strong favorite.

This is about four feet and the case of a mite that is not distinguishable by the naked eye may be cured by first washing the legs of the birds affected with soap and warm water and after they are dry applying kerosene. A couple of days later cotton-seed oil or vascline should be applied.

Cold Weather Girl In the control of the seed legs at the being a favorite.

This is about four feet and the control of the presence of a mite that is not distinguishable by the naked eye may be cured by first washing three legs of the birds affected with soap and warm water and after they are dry applying kerosene. A couple of days later cotton-seed oil or vascline should be applied.

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Cold Weather Girl In the couple of the birds affected with soap and warm water and after they are dry applying kerosene. A couple of days later cotton-seed oil or vascline should be applied.

ure, and a bright eye, while her sister who sits indoors will come through the winter with a pasty complexion and

Get out of doors all through Novem her, and the following months. Make it your business to get out every day, rain or shine, and walk, ride or run in the open air. Do not coddle your-

ton much flesh.

tramp in the fresh air to keep your digestive system in order, your skin fresh and soft and your expression happy—Annie Frances, in Farm Life.

Hoga and Fruit Good Combination. Where climatic and soil conditions favor cheep and abundant pasturage and where most of the concentrates and where most of the concentrates necessary may be raised on the farm or obtained at a reasonable price, hogs have proved a profitable invest-ment with orcharding.

get a fine flavor from the juice

MARKET, TECHNICALLY, IN STRONG POSITION

Bull Position Arc Shaken

By Associated , ress. 1 NEW YORK, December 24.—A general closing out of speculative accounts and widespread liquidation, accompanied by extraordinarily severe declines in prices, marked one of the declines in prices, marked one of the declines in the history week. nost remarkable weeks in the history

Put some sand over the boxes or their existence, or at least facir prebins in which root crops are stored.
It will prevent their drying out.

their existence, or at least facir predestined for Germany had chartered the storm as they had before and even minor or lowfore and

profit in fruit production.

Fut the old hens by themselves and feed liberally with corn to fatten them for market.

If is generally conceded that the market technically speaking, will be much benefited by the week's happenings. Stocks have gone into strong the statistical history of the market. The visible lost outsinste values and bank loans are certain to show marked reductions need all the sunlight they can get.

The silo enables the farmer to store a greater amount of feed in less space than he can otherwise do.

Cherry trees and apple trees as well.

Sightly affected.

It is generally conceded that the market, technically speaking, will be market, the first decrease in December in the visible supply of American cotton in the statistical history of the market. The visible lost outsins less that the nearly of the market of the corporate to speaking, will be market, technically speaking, will be market, technically speaking, will be market technically speaking, will be market to speak a speaking, will be market to speak a speaking, will be market to speak a speaking, will be market. The visible lost outsins less than the sight was small, which combination of events caused the first decrease in December in the sight was small, which combination of the visible supply of American cotton in the statistical history of the market. The visible lost outsins less than the visible supply of American cotton in the statistical history of the market of the visible supply of American cotton in the statistical history of the market being season than the visible supply of American cotton in the statistical history of the market to speaking, will be market technically speaking, will be market to speaking, will be market. The visible lost outside the market to speak a speaking, will be market to speaking, will be market. The visible lost outside the market being speaking.

It is obvious that open to speak a speak are nearer to a speak a sp

than be can otherwise do.

Cherry trees and apple trees, as well as pear trees, are suitable for planting as pear trees, are suitable for planting along line fences.

"Get acquainted with your neighbor, you might like him."

Wash water used in the churn should be approximately the same temperature as the buttsrnilk, or within two degrees of in milking. This requires milking with dry, clean hands.

The most responsible financial interests, including those with connections in the countries of the central powers, maintained their accustomed reserve, this feeling being strengtheleaders of industry.

Additional heavy receipts of gold from Canada were helpful, not only in stabilizing exchange, but in paying for further supplies. Upon the developments in the present situation abroad will depend the progress of negotiations for further foreign loans. It is understood that the first signs of peace will be followed by important undertakings in behalf of Germany and her allies.

Which opens on Tuesday, there is every which opens of microspect of micro

COTTON SUFFERS

Market In Called Upon to Bear Widest Loss in Its History—Conflict of Opinions as to Future.

most remarkable weeks in the history of the Stock Exchange. There was some recovery, however, in the late dealings. Conditions bearing upon war as reflected in peace developments at Washington and the European capitals, precipitated the dealine, which was rendered easier by the market excesses of the autumn months. The brunt of the shrinkage was borne by so-called "outsiders," namely, the public, who had overplayed their bull position.

In effect, however, the week marked the culmination of aimost two years of extravagant and unrestrained trading, largely in specialties which owed their existence, or at least facir preparity, to the war. Standard stocks withstood, the storm as they had be withsteod the storm as they had before, and even minor or low-priced
rails, which recently emerged from
their protracted obscurity, were only
slightly affected.

It is generally conceded that the
market, technically speaking, will be
market, technically speaking, will be

[Special to The Times-Dispatch.] DANVILLE, VA. December 24.—The neer of Danville will not be allowed to suffer by neglect this Christmas. Itarely, if ever, have such careful plans been made to bring a ray of Christmas cheer in such a systematic way. The largest work of charity is that of the Elks, who will entertain 1,200 poor children in the Tabernacle on Monday afterness. boy will receive a present, and all winget a bar of sweets and fruits. The Danville Ornhanage and the city poor

At this level it was 129 to 517 points; house have well-stocked larders, down from the highest levels of the thanks to the thoughtfulness of hands ing December 2. This represented a loss of from about \$21 to \$26 a bale, the thin was the widest loss the market ever has been called upon to face in that those forgotten or overlooked are so short a time. so short a time. The new change for the week was a loss of 109 to 135 which are in baskets piled high on the army hall floor. The Salvation

### To Quickly Relieve Soren ess and Inflammation

ant it is to use and how economics to do the work.

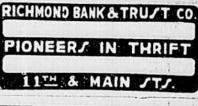
In addition to being a dependable liniment, Absorbine, Jr., is a sate, powerful, trustworthy antiseptic and germicide which doubles its efficiency

When applied to cuts, brulses and sores it kills the germs, makes the wound aseptically clean and promotes rapid, healthy healing. It allays page rapid, healthy healing. It allays pages and inflammation promptly. Swollen glands, painful varieose veins, wens and bursal enlargements yield readily to the application of Absorbine, Jr. Absorbine, Jr. is sold by leading druggists at \$1.09 and \$2.00 a bottle or sent direct postpaid.

Liberal trial bottle postpaid for 10c in stamps.

W. F. TOUNG, P. D. F.

Springfield, Mass.





RAILROADS

Richmond and Chesapeake Bay Railway Company Trains feave Richmond b\*5:09 A. M., \*7 A. M., b5 A. M., 2 A. M., 10 A. M., 11 A. M., 12 A. M., 2 A. M., 2 A. M., 10 A. M., 11 A. M., 4 A. M., 5 A.

norfolk & Western Railway

Richmond, Fredericksburg & Potomac R. R. In and from Washington and Beyond—Dally

19. Nich'd A 15.15 AM, \*5.27 AM, 14. Rol'd \*7.56 AM, \*12.45 PM,

19. Rich'd A 15.15 AM, \*5.27 AM, 14. Rol'd \*7.56 AM, \*12.45 PM,

19. Rol PM, \*12.35 PM, \*5.35 PM, \*6.25 PM, \*6.25 PM, \*6.25 PM,

112.01 PM, \*12.35 PM, \*5.30 PM, 19.35 PM, \*12.35 NM,

112.01 PM, \*12.35 PM, \*5.30 PM, 16.35 PM, \*12.35 NM,

15.20 PM, \*12.35 PM, \*13.35 PM, \*12.35 PM,

Richmond-Washington I wall, Iv. 22.15 PM, west days, cd.15 PM, Sun
flays, Ar. 211.25 AM, faith Irreductation, these week days Iv. 24.15 PM,

Richmond-Washington I wall for the state of the

Althe ticket and baggage offices out open for this train. "Hain St. So. 1Berd St. Sta. integnee of Post. St.

SOUTHERN RAILWAY is against not guaranteed, For the

south - Daily of 30 A. M. 10 31, 10 30 A. M. feabures, beatof before to fill a carriers in the carriers of the

**Kichmond & Petersburg** Electric Ry.

\*\*\* Comparison of the comparis CHESAPEAKE & OHIO RY.

Seaboard Air Line Railway Company "The Progressive Railway of the South." Trains leave daily: 9 A. M., Norlina local: 12:59 P. M., sleepers Atlanta and Jackson-ville, 6:35 P. M., sleepers Atlanta and Jackson-ville, Carlona and Key West, 11:19 P. M., coaches: 12:45 P. M., sleepers, Atlanta, Ermingham, Jackson-ville, Tanna and St. Petersburg, Trains arriver, 5:19 A. M., 9:39 A. M., 19:30 A. M., 19:30 A. M.,

STEAMBOATS

## Old Dominion Line

by the state of th

HOTELS

TURKISH AND ROMAN BATHS.



The most magnificent hotel in and en suite, with and without bi

# To Our Customers

Greetings and Sincere Good Wishes for a Happy Christmas and a bright and prosperous New Year, with hopes that the cordial relations of the old year will continue through ensuing years, and that each of us will make many new friends.

Richmond Trust & Savings Co.

\$1,000,000.00

Capital & 7th Street

Main

Montague Mfg. Co. S. W. Corner Tenth and Main Sts., SASH, BLINDS, DOORS, FRAMES.

Merry Christmas

Prosperous New Year MAKE IT CONTINUOUS PROSPERITY BY USING

"BUSINESS BUILDING PRINTING."

Cottrell & Cooke

Sincerest Wishes for a

Merry Christmas

and a Happy New Year,

BROADWAY NATIONAL BANK

Bank of Commerce and Trusts Richmond Vai

sends to you its
Hearty Greetings and Good Wishes
for a Merry Christmas and a
Happy New Year